

ABSTRACT OF THE DISCLOSURE

In the method for implementing the event transfer system of a real time operating system kernel, the task with the highest priority first obtains the event under the multi-tasking environment which requires a real time characteristics. In the case of the multi-tasking environment in which the priority-based preemptive scheduling is adapted, if a plurality of tasks with respect to one event, call a kernel system function of receiving the event, the real time operating system kernel queues the tasks into the waiting-list of the event in the priority order. In this state, when the event is sent, the task having the highest priority in the waiting-list immediately obtains the event, is woke up and is resumed execution.